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The Students of Worcester Polytechnic Institute

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TECH NEWS

VOL. 19

WORCESTER, MASS., FEB. 14, 1928

NO. 14

COMMANDER BYRD ADDRESSES LARGE AUDIENCE AT ASSEMBLY

Famous Explorer and Aviator Tells About Scientific Devices Used on Flight Over North Pole

COMDR. BYRD PAYS TRIBUTE TO MR. A. N. BUMSTEAD, '98 INVENTOR OF SUN COMPASS

An unusual opportunity was afforded Tech men to see and hear the intrepid commander, Richard E. Byrd, scientist, explorer and aviator, at the Fuller assembly held last Thursday morning in the gymnasium. Commander Byrd made the first flight over the North Pole and he was one of the first non-stop trans-Atlantic fliers.

As he entered the large hall with President Earle the young explorer was extended a very warm and enthusiastic greeting by the record audience of faculty, alumni and students which filled the gymnasium to capacity.

Dan L. Leamy, member of the Tech Council, presided at the assembly. The exercises were begun by singing the first stanza of "America." After a few student announcements, Mr. Leamy

(Cont. on Page 7, Col. 1)

COMMANDER BYRD CALLS FOR MEN

Volunteers for South Pole Trip to Register at Office

Commander Byrd was really in earnest when he issued a call for volunteers here during the course of his lecture last Thursday in the gymnasium.

What a splendid opportunity has now been extended to the students and faculty of this Institute to distinguish themselves and bring fame and honor to their Alma Mater.

All vigorous, red-blooded men and young men interested in accompanying the fearless commander to the South Pole are requested to notify the main office, giving name, and special aptitudes, if any are possessed.

Although some two thousand young men have already volunteered their services to Commander Byrd, the probability of being selected is not as slight as it seems, for the recommendation of President Earle will undoubtedly bear considerable weight with the commander of the expedition. There will be about fifty-five young men to be chosen from all of the volunteers from all over the country.

The expedition is to start next September the 10th from New York. The commander will sail from there, southward bound in the "Sampson," owned by Commander Byrd. The vessel is being especially constructed to meet the severe navigation conditions of the Antarctic Ocean. The ship is also being built so that it will break through ice, should it get frozen in at some point along the journey.

MUSICAL CLUBS RENDER CONCERT

Lunenburg Club Sponsors Out-of-Town Entertainment

The combined Musical Clubs presented a concert in Lunenburg last Friday evening under the auspices of the Lunenburg Woman's Club.

The concert was opened by the orchestra which played two popular fox trots, "Sailin' On" and "Moonlit Waters." Then the Glee Club sang two pieces, "Away to Rio" and "Ring and Rose." Great applause! "Straussiana" was the name of the next musical number by the Mandolin Club and this was followed by the popular selection "Dream Kisses." "Hunting Morn" and "The Bells of St. Mary's" were next offered by the Glee Club. There was a short intermission during which the orchestra presented a group of popular dance numbers and candy was sold in the audience. The next feature was a magic act presented by H. Prescott Shreeve. This new and unusual display of talent was especially enjoyed by the younger part of the

(Cont. on Page 6, Col. 3)

ANNUAL ALUMNI ELECTIONS HELD

President Earle and Department Heads Address Alumni

About a hundred alumni were present at the last meeting of the Worcester Polytechnic Alumni Association, which was held in the commons room of the new Sanford Riley Hall.

President Earle spoke of the greatest needs of the Institute at present, mainly a new Mechanical Engineering building and a new building for a combined Chapel and Commons. He also suggested establishing a professorship of business administration at Tech. Talks were also given by Professor H. B. Smith, Professor F. J. Roys, and Professor A. W. French, who told of the needs of respective departments.

Officers of the association were elected. G. C. Graham of Boston becoming president, and H. S. Fritch of Boston, A. S. Coffin of Schenectady, R. W. Adams of Providence, G. E. Pellissier of Holyoke, and A. G. Livermore of Pittsburg were named vice presidents. H. F. Taylor is secretary of the association.

A meeting of the Council of the Alumni Association was held last Saturday morning at which three members were nominated to the board of trustees.

The men who received the nomina-

(Cont. on Page 6, Col. 2)

THE BAD MAN WILL BE GIVEN

First Worcester Presentation Due Thursday

PLAY MAKES EXCELLENT ENTERTAINMENT WITH ITS COMICAL SITUATIONS AND ENDING

The Masque offers its sixteenth annual production Thursday night, when "The Bad Man" appears at Tuckerman hall. The play in reality is a satire on the activities of Villa, the famous Mexican bandit. It appeared for the first time in 1918 on the New York stage while Villa was still in his prime. Written by Porter Emerson Browne, it is probably remembered by some of the older Tech students as the play in which Holbrook Blinn, the well-known actor, first achieved prominence and a reputation. Since leaving New York in 1920 it has continually been on the road in the hands of a stock company. Through an especially fortunate set of happenings Worcester Tech has been the first amateur organization to secure this play. Since the stock company never came to Worcester, it is the play's first appearance here as well.

"The Bad Man," as has been widely advertised, is a comedy-drama, centering on the escapades of Pancho Villa. Joe Guidi, formerly only known for his athletic ability, fills this part very capably. The play runs as follows: Gilbert Jones, ex-service man and owner of a ranch in Arizona which is to

(Cont. on Page 4, Col. 1)

CALENDAR

TUESDAY, FEB. 14:

9:45 A. M.—Chapel, song service.
7:30 P. M.—Newman Club meeting, reception rooms, gym, election of officers.

WEDNESDAY, FEB. 15:

9:45 A. M.—Chapel talk by Professor Coombs.
4:30 P. M.—Mandolin Club rehearsal.

THURSDAY, FEB. 16:

9:45 A. M.—Chapel talk by Rev. R. E. Butterfield.
8:00 P. M.—Tech Show, "The Bad Man." Tuckerman Hall.

FRIDAY, FEB. 17:

9:45 A. M.—Chapel talk by R. E. Butterfield.
4:00 P. M.—Peddler Board meeting, B-19.

SATURDAY, FEB. 18:

3:00 P. M.—Swimming, Tech vs. B. U.
7:15 P. M.—Basketball, Seconds vs. South.
8:15 P. M.—Basketball, Tech vs. M. A. C.

MONDAY, FEB. 20:

4:00 P. M.—News assignments, B-19.
4:00 P. M.—Senior class meeting, B-19. Election of officers.

TECH HOOPSTERS DOWN CHERRY AND WHITE FOR SECOND TIME

Shanahan and Alderman, Clark Aces, Checked by Stubborn Defense Displayed by Tech Guards

FULLER GIVES A SCHOLARSHIP

Latest Gift Purports to Promote Ingenuity

Another scholarship has been added to the long list granted by the Institute to its students. It is to be given by Henry J. Fuller, '95, to the entering Freshman who possesses the greatest amount of "Yankee ingenuity."

In his letter of gift, Mr. Fuller stated that there appears to be some doubt whether Yankee ingenuity, so-called, is as keen among the youth of this generation as it was in an earlier day. This doubt was suggested by his friend, Edmund C. Mayo, president of the Gorham Manufacturing Company, of which company Mr. Fuller is chairman of the board, in an address before the New England council at Springfield, last November. The subject of that address was "The Decline of Yankee Ingenuity." In establishing the scholarship Mr. Fuller asserts his confidence in the continued existence of this trait and purposes to assist the boys who possess it.

The scholarship will yield to the college an income equivalent to the total totalling \$12,500.

(Continued on Page 6, Col. 1)

TRUSTEES MAKE GIFTS TO TECH

\$12,500 Is Received for Various Improvements

Announcements were made of the receipt of gifts by the trustees of Tech totalling \$12,500.

A gift of \$5,000 was received from Henry M. Dingley as a final payment toward a scholarship. A second gift of an equal amount was donated by another member of the board of trustees who stipulated that it be used for repainting the interior of the Alumni Gym, the hanging of opaque shades in the gym to make it possible to show motion pictures and slides more successfully, the construction of a storage room in Boynton Hall for administration files, a sidewalk on West street, and the construction of more campus walks. A gift of \$900 was received from the Wetherell estate for new chemistry equipment, and one of \$800 from George P. Fuller for new equipment in the Physics department. A sum of \$800 was given by Moses B. Kaven to purchase for the Civil department a Beggs deformater.

The receipt of these gifts is greatly appreciated and will do much to overcome some existing deficiencies.

HOLMES LEADS CRIMSON AND WHITE ATTACK. CIANO STARS FOR MAIN SOUTH QUINTET

For the second time this season the Engineers have emerged victorious in their encounter here last Saturday evening with the Clark hoopsters to the tune of 26-20. The Engineers set a fast pace and early in the game were leading 7-0 before Clark scored. The defense put up by the Engineers was a veritable Gibraltar and impenetrable. Clark's luminaries, Shanahan and Alderman, lacked their usual brilliance and were unable to score more than four points apiece, because of the close guarding by the Tech backs.

The game was, at times, slow and uninteresting and marred by numerous fouls. Clark made eight of its ten free tries. Tech got four out of five. Ciano led the free try shooters with five single counters. Both teams missed frequent shots at the basket. The Engineers scored eleven field goals while Clark made good six attempts. From the Clark style of play it was very evident Shanahan was the king pin in the offense, as he fed the ball to all his mates.

Graham and Holmes led the scoring attack for the Engineers, being the two high scorers of the evening. Holmes led with eleven points and Graham followed one step behind, with ten points. The Main-South team seemed unable to check them.

Graham got the Engineers off to a

(Cont. on Page 8, Col. 1)

TECH SECONDS DEFEAT CLARK

Two Overtime Periods Necessary to Decide Winner

The Tech Seconds avenged an earlier defeat of the season by a victory over the Clark Seconds, in one of the fastest nip-and-tuck games of the year. This was the preliminary to the Varsity game with Clark last Saturday evening.

The opening score was made by Kraemer for the Clark Seconds on a free try. On the next play, Whitaker of Tech was fouled and was awarded a free shot which he dropped neatly through the hoop. The teams were well matched, but the Tech team played an aggressive game to make up for the defeat handed to them by the Clark Seconds previously.

The end of the first quarter found both teams working fast and hard, with the score one to one.

The second period again saw both teams struggling for a lead. No score came until after a few minutes of play.

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MUSICAL ASS'N CONCERT, MECHANICS HALL, FEB. 20

TECH NEWS

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TERMS

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THE HEFFERNAN PRESS

Spencer, Mass.

February 14, 1928

CURTAIN

Thursday evening of this week will see the eighteenth Annual Tech Show behind the footlights at Tuckerman Hall. For three months now, cast and managers have labored over the Masque's latest production, "The Bad Man." Time and considerable energy have been spent in overcoming the numerous difficulties which have cropped up, not least of which was the breaking in of a new man to fill a fair-sized role, within the last week, when it was found that one of the cast had been "dismissed" from the college for six months. All is now in readiness, however, for the final dress rehearsal.

In past years student attendance has been somewhat less than it should have been, probably due to the fact that Tech Show comes during Junior Prom and house-party week. This year the date was set ahead with the idea of relieving the situation. Apparently this has been accomplished for nothing of importance is scheduled for several days before and after February 16.

The advance sale of tickets has now been on for three weeks. Worcester people as ever, desirous of seeing a collegiate dramatic production, have purchased tickets representing almost one-half of the house. This is an excellent start—something to build on. The rest is up to the students. Due probably to the average person's ever-ready-willingness to put off everything possible to the last minute, the sale of yellow tickets on the Hill has been somewhat slow. It is earnestly recommended, however, that they be bought at once

from the various representatives around college, in order that reserve seats may be secured at Buffington's. Realizing that it is a Tech Show for Tech men, good seats in all parts of the house have been saved out for them. The stage is set. Lights are out. Curtain!

BRYD, BIRD OR BOTH

Last Thursday Worcester Tech was honored with a visit by one whose name is on the lips of every true-blooded American. Sharing honors equally high with Colonel Lindberg rides a gallant son of Virginia, Commander Richard E. Byrd, a flier of the first order, a scientist of international renown, a gentleman at all times, and last, but not least, a shipmate of our esteemed president. No other man can we think of who has taken such an active part in so many events which have been acclaimed universally throughout the two continents. Among the most important of his experiences we pick three as emblematic of his willingness to stake all in an endeavor that science might profit, and scarcely on the heels of his latest achievement we hear the announcement of another prospective journey into the unexplored. First we have the trans-Atlantic flight of the N. C. planes, the first occasion of flight over the Atlantic. Later we find Commander Byrd in the role of the first to fly over the North Pole and explore by airplane, the region north of the Arctic Circle. This third signal effort was another oceanic flight. This time although he was not the first to accomplish the feat of a non-stop flight to Europe from the United States, he was the first of his kind, flying with the interests of science alone as his incentive. Now we have news of his projected conquest of the South Polar regions, a journey involving even more difficulty than any yet undertaken perhaps. Can nothing phase this gallant naval officer whose whole appearance radiates enthusiasm over every detail of his past and future experiences?

Would that there were many more men like him in the realm of science. What an advance this world of ours would experience. If we could all of us only set up an ideal in life and stick to it, pushing forward always, and stopping only to refuel before we start out again, there would be little we could not accomplish. Tech men would do well to emulate the spirit of Byrd in future engineering.

PROMENADE

Junior Prom, big event of the year for the Junior class, is approximately three months off. Now is the time however when several important questions with regard to it will have to be dealt with. In past years, as the three upper classes know, Junior Prom has been held in the Bancroft ballroom. An orchestra to suit the size and position of this hotel has always been engaged to play, and a genuine high class social affair has resulted. Of late, particularly this winter when Junior Prom was mentioned, queries have been raised as to why it wasn't contemplated holding the Prom in Sanford Riley Hall. Most other colleges stay on the campus for their Proms. The expense of the down town dance could be nearly halved, and a supper included in that admission price to boot. It is doubtful if even the social standard would be lowered, for the hall available is one of the best decorated and best equipped to be found anywhere around. Without question the number attending would be increased.

The thought back of all this is as follows. The Bancroft Junior Prom is a genuine "high hat" affair—one of which any college could be proud. As a result expenses run high and practically every year an assessment is levied on

the Junior class when everything is over. In past years too, a rather questionable system of paid patrons has been in vogue. Had this not been the case, the assessment would have been more than doubled. By holding the affair in Sanford Riley Hall, all this would be eliminated.

So this year the class of 1929 has the opportunity of establishing a precedent. They may continue to hold Prom off campus, making the affair possibly a better success socially, and an undoubted failure financially; or they may avail themselves of this latest addition to Tech, and without question a financial success.

RATE OF MORTALITY

How many times have we heard it mentioned about the Hill that the death rate of Tech students in good standing was unreasonably large? Here is one to think over, and we think it's good food for our morals. Only four months have elapsed since the University of Wisconsin opened its doors to an incoming freshman class numbering twenty-nine hundred, and yet

within such a short time a formal announcement has been made by the registrar of that well-known institution that of the twenty-nine hundred there will be approximately seventeen hundred missing when the time comes for them to return next fall. Seventeen hundred "children" who aspired to a college education have been weeded out in four months as undesirable. Several reasons were given for this undesirability and we believe it is well to give them here that Tech men may see the obstacles lying in the path of education in other colleges than their own. Members of the official board of the University applied the word "children" when they were advised that these seventeen hundred students were unfit for further study there because they lacked ability to climb to the academic level required at an institution of higher learning, because they believed when they came, and continued to believe that they would find a "glorified playground" on the campus, victims of movies and novel hallucinations, and because they were truly "mere children."

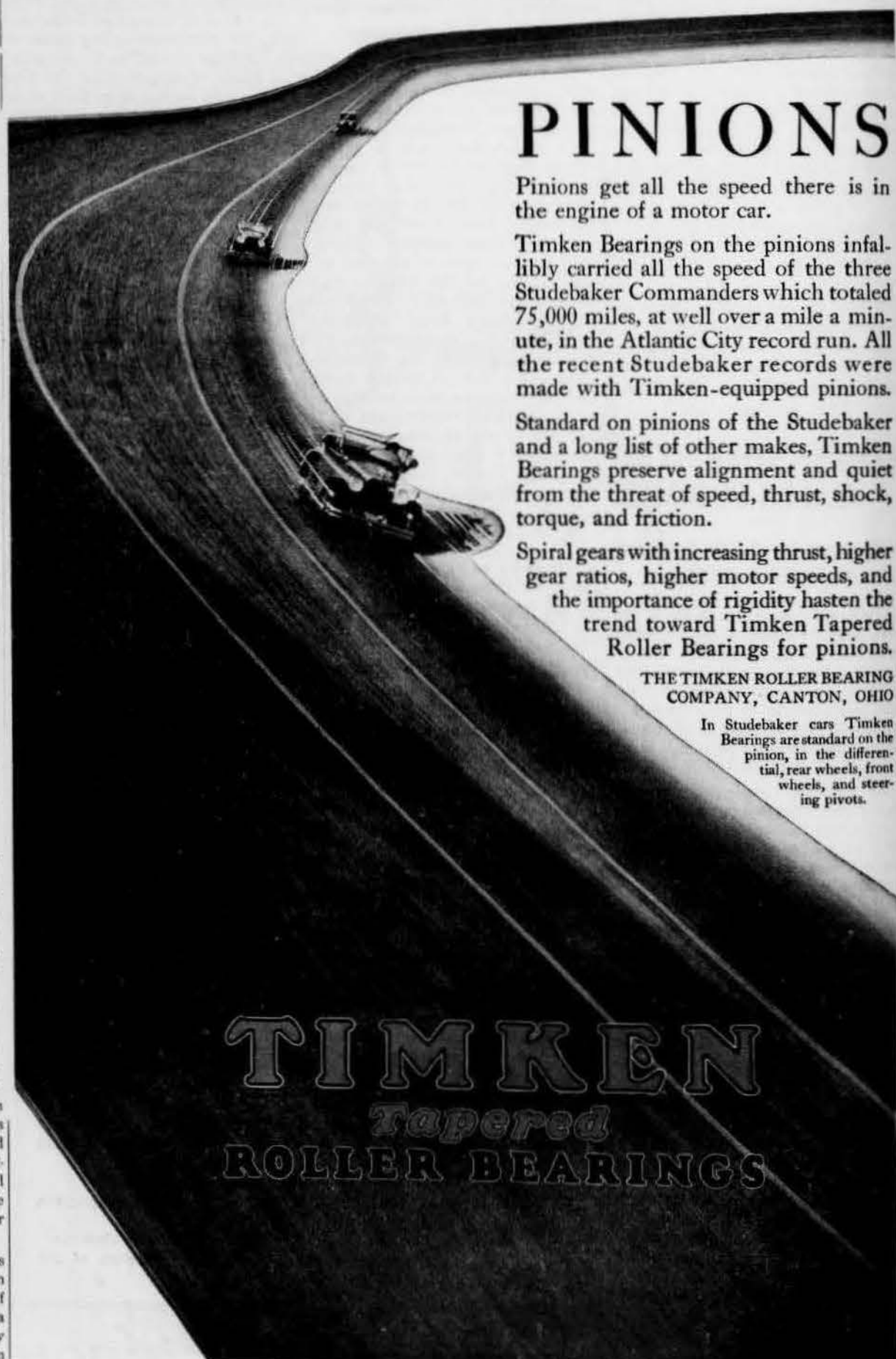
One would do well to ponder over these reasons offered in an effort to find

out if any of them apply to him. Surely all of the "children" are not to be found in one college, and possibly some have worked their way into Tech. If there are any, we hope that they will cease to qualify as "children," and the sooner the better, for we should hate very much to see a "Children's Crusade" eject itself from the portals of this worthy institution of learning.

We recommend attendance at

Tech Show

as a means of relieving strain



PINIONS

Pinions get all the speed there is in the engine of a motor car.

Timken Bearings on the pinions infallibly carried all the speed of the three Studebaker Commanders which totaled 75,000 miles, at well over a mile a minute, in the Atlantic City record run. All the recent Studebaker records were made with Timken-equipped pinions.

Standard on pinions of the Studebaker and a long list of other makes, Timken Bearings preserve alignment and quiet from the threat of speed, thrust, shock, torque, and friction.

Spiral gears with increasing thrust, higher gear ratios, higher motor speeds, and the importance of rigidity hasten the trend toward Timken Tapered Roller Bearings for pinions.

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TIMKEN

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CHEER UP; TECH SHOW IS COMING

We witnessed a clever bit of strategy, or so-called play on reactions of the human mind, when final grades for the first semester were passed out last week. That psychological effect was produced by a simple little insertion in the somber blue envelopes which have by this time become familiar to us as messengers of fate. A cold, blue envelope, enclosing a still colder white card, is the only sign we find of our existence here. Alas, however, the monotony has been broken and our attentions were diverted for the time being by a new sight which greeted our eyes. This time the first object we drew from the envelope was not the time-honored report card; it was something with more warmth. There stared a face, none too gentle to be sure, but at the same time a relief from what we were expecting to find. Under that face was a catchy statement. Six words were all that we could find, but those six words carried more weight than any well-written paragraph of one hundred words could have possibly borne. "Cheer Up, Tech Show Is Coming": That and the face which we understand to be that of "The Bad Man" was the message carried to us.

In this age everything is carried out scientifically; even to the smallest bit of advertising, and the insert mentioned above is a vivid example of the fact that the Masque has adopted a policy of systematic advertising. We cannot conceive of a more appropriate moment, or of a more appropriate message to the student body in support of the coming production of that organization, than the one presented. Someone is to be congratulated on the ingenuity in taking advantage of so common and drab an object as the report card to turn it into an honest free advertisement.

The Masque put one over on the student body and deserves to reap the crop of publicity thus given it. Why not turn the trick with the verbal answer to the challenge: "Cheer Up, Masque, we're all coming, too."

PROF. CARPENTER MOVES TO NEW OFFICE IN GYM

Professor Percy Carpenter of the Department of Athletics has removed his office from the second floor of the gym to the office occupied by Paul Swan and the Y. M. C. A. until the latter was transferred to Sanford Riley Hall. In the office adjoining, Professor Carpenter has installed the team managers and their records. "Pete" Bigler now occupies the office vacated by Professor Carpenter.

In order to abolish the dangerous custom of students smoking in all parts of the gymnasium, Professor Carpenter has converted the old "Y" reading room into a smoking and lounging room. President Earle and Professor Carpenter in opening this room to the students request that they do not eat their lunches in it.

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CURTIS SHOE

For

COLLEGE MEN

SCHOLARSHIP IS ON THE UPGRADE

Statistics Show Improvement in Freshmen Class

Statistics show that there has been an improvement in scholarships at the Institute. Results of mid-years entitle 79% of the student body to continue in good standing. This year's Freshman class promises to be one of the Institute's best classes, — intellectually. 81% of the Freshmen will continue this semester in good standing.

A year ago the Freshman class (1930) had 209 members the first terms. Of this number, 102 continued on without deficiencies. Of this year's class, 127 will continue on. There has been an amelioration, as is evidenced by the fewer unsatisfactory marks given out this semester as compared with other semesters.

The new Institute rule, pertaining to Freshmen, is: Any member of the Freshman class who fails in more than one half his studies, his first month, is given a warning as to his low grades. After the first month, one need fail but one-third his hours to be warned. Action on suspension will not be unexpected by the Freshmen, as they will have been forewarned. But one warning is sufficient to suspend a student, for a period of six months or a year.

The benefits of the Summer School are here indicated. Students failing in their studies, may take the summer course and start the next year in good standing.

The registration for the second semester is as follows: Senior 75, Juniors 108, Sophomores 158, Freshmen 148, unclassified Freshmen 20, graduate students 8. Total 527. This registration is seven more than ever before for the second semester.

SENIOR CLASS NOMINATING COMMITTEE NAMED

The nominating committee for the officers of the Senior class has been appointed by the president and will consist of the following men: E. Fowler, chairman; O. Bedard, F. Fleming, E. Gibbs, P. Henley, F. Huntington, F. King, W. Lester and G. McColley. The printed ballots are to be ready for the election which will take place on February 20.

Permission has been granted to the



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SWIMMING TEAM WILL MEET B. U.

Last Meet of the Year Scheduled for Springfield

The Tech Swimming Team will again swing into action next Saturday when it faces the Boston University mermen in the Tech pool. It will be remembered that this is the first aquatic team that Tech has produced and it has already showed its ability by defeating M. I. T. by a score of 35-27 in the Alumni gym pool. Although defeated by Brown in the second meet to a tune of 43-19, the Worcester swimmers are ready to make up for that next Saturday.

The line-up of Boston University is not yet published, but the following men will represent Tech:

Medley Relay—Palm, backstroke;

Senior class by the Tech Council to elect permanent officers without regard to the present existing point system.

Hall, breaststroke; Locke, free-style.
40-Yard Dash—Holcombe, Curtis.
440-Yard Dash—K. Perry, R. Hollick,
Diving—Tauter, Sodano.
150-Yard Backstroke—Palm.
100-Yard Free-style—Locke, Rogers.
200-Yard Breaststroke—Hall, Larson.
160-Yard Relay—Holcombe, Curtis, Rogers and Larson.

The following Wednesday the Tech mermen meet the Springfield College swimmers at Springfield. The latter has started a good team this year and the Tech men will have to work hard to beat them. This is the last scheduled meet for W. P. I. and the team will need the full support of the students to be able to wind up the season successfully.

Mr. Herbert Ashjian, swimming coach at Tech, today announced that classes in Red Cross Life Saving will begin early in March. At about the same time the races to set new school tank records will take place. Both of these things are open to all students and anyone wishing to learn life-saving or who has swimming ability should take advantage of these opportunities.

HARVARD FEATURED ON NEW SOCCER SCHEDULE

Shorter Season Is Also New Policy

Following the policy of choosing teams from well-known colleges as the opponents for our teams, the Department of Athletics has been fortunate in securing the Harvard soccer team as Tech's opponents on Tuesday, November 13, 1928, at Cambridge. The booking of this game is the result of unceasing effort on the part of Prof. Percy R. Carpenter. This year, however, is the first year that Tech and Harvard could agree on a date for a game. In addition to Harvard, Tech will meet teams from the same schools as last year.

The schedule as announced this morning by Prof. Percy Carpenter is as follows:

October 13—Northeastern at Worcester.

October 17—Clark at Alumni Field.

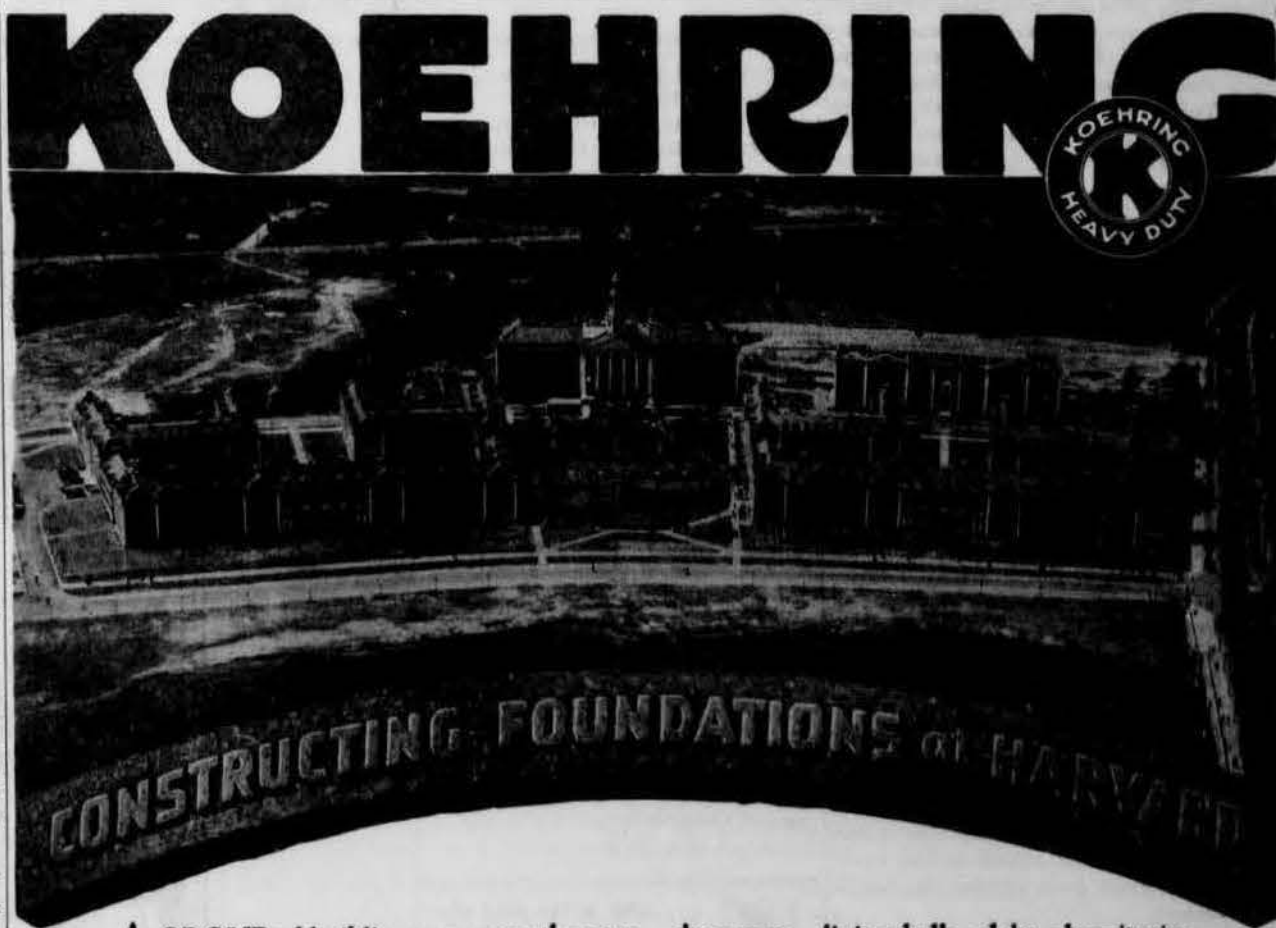
October 20—Wesleyan at Worcester.

October 27—M. I. T. at Boston.

November 3—Brown at Worcester.

November 10—Amherst at Amherst.

November 13, Harvard at Cambridge.



A GROUP of buildings was recently completed in Cambridge, Massachusetts, for the Graduate School of Business Administration, Harvard University. The group was planned as a unit and developed in accordance with a definite idea that buildings and grounds could and should help in education, and that personality could be brought out in an atmosphere of quiet and good taste appropriate to an old university.

Included in this modern school of business are specific buildings for administration,

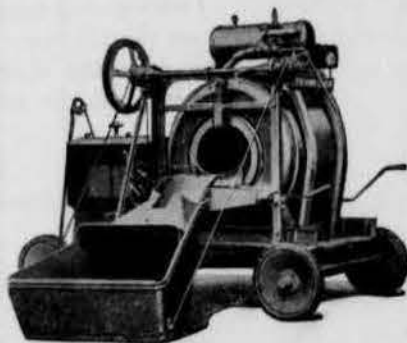
classrooms, dining halls, clubs, dormitories, library, recreation, business research, and professors homes. The total cost of all of these as illustrated in the above picture was approximately \$5,000,000.

Four Koehring Heavy Duty Mixers [two No. 10S and two No. 14S mixers illustrated below] were used in mixing the concrete for the foundations. With the Koehring re-mixing action it was assured that every foot of concrete wall would be uniform and of dominant strength.

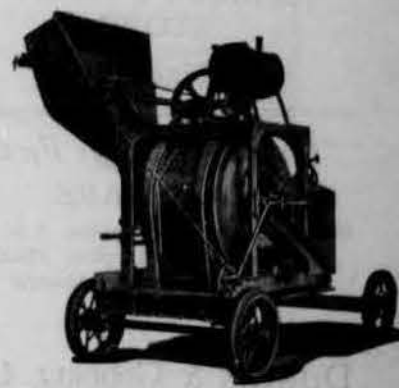
KOEHRING COMPANY

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Manufacturers of Pavers, Mixers — Gasoline Shovels, Cranes and Draglines.



The revised edition of "Concrete — Its Manufacture and Use," a complete treatise and handbook on present methods of preparing and handling portland cement concrete, is now ready for distribution. To engineering students, faculty members and others interested we shall gladly send a copy on request.



TECH SHOW WILL BE THURSDAY

(Cont. from Page 1, Col. 3)

be foreclosed at nightfall by Jasper Hardy, a loan shark, unless several thousand dollars are forthcoming, is in the process of packing up. Henry Smith, diabetic, wheel-chaired uncle, desires him to marry Hardy's daughter, as the one and only solution of their plight.

Gilbert is, however, in love with his visitor's wife, Lucia Pell, and is not favorably impressed by Smith's suggestion. Pell, incidentally, is deeply interested in the acquisition of the ranch himself for the possibility of oil being found on it has been hinted at. To this end he offers to assume the total mortgage, seemingly on the basis of friendship. This being the appropriate time for such an occurrence, Pancho arrives in clouds of dust and assistants.

Pancho's first thoughts are that here are two men to hold for ransom. On finding that Jones is a former acquaintance who once saved his life, he decides to save the ranch for Jones. Since he also finds that Jones is in love with Lucia Pell, nothing will satisfy him but the getting of the two together. Always keeping these facts in mind, he shoots Pell, pays the mortgage and departs in his usual whirlwind manner.

The parts are being taken by the following men: Lyman Adams, Henry Smith; J. Hamilton Minnick, Morgan Pell; Walter Lewis, Lucia Pell; Joseph Tulka, Red Geddings; Newman Bumstead, Angela Hardy; Joseph Guidi, Pancho Lopez; J. A. Anglada, Pedro; H. T. Cutler, Venustiara; A. M. Goodenough, Bradley. The part of Jasper Hardy is being filled by Batchelor, with Allen Weissinger as understudy.

**TRACKSTERS SHOW
TWICE IN BOSTON****Relay Team Registers Win in K. of C. Games**

The initial event of the 1928 Tech indoor track season was annexed by the relay team at the Knights of Columbus track meet in Boston on January 28. At that time our team, consisting of French, '30; Leamy, '28; Tarbox, '28, and Stoughton, '30, defeated the four from Colby.

On the following Saturday, February 4, the same team again travelled to Boston. This time the occasion was the Boston Athletic Association indoor meet. Again Colby was Tech's opponents, and again Tech defeated it, but W. P. I. placed second in this event to the crack team representing Northeastern.

Running in the forty-yard events against some of New England's finest collegiate sprinters, Captain E. C. Milde, '30, was unable to place in this event.

In preparation for the forthcoming indoor dual track meets with M. A. C., Northeastern, Clark and Brown, Coach

Johnston and Captain Milde are busily engaged in the building of a winning team. Among the outstanding newcomers are Mace and Hall, both Freshmen. Lacking experience in indoor racing, they have been subjected to a rigid training and as a result they may be counted on to do well.

Coach Johnston wishes to stress the fact that any likely candidates for positions should report to him, and start training immediately, for only with this full support can he develop the best team to represent Tech.

The first of the season's dual meets is to be held at 2:30 P. M. on Saturday, February 18. Tech's team will have as its opponents at that time the team from M. A. C. The "Aggies" have the reputation of always having excellent track teams; in fact, Tech won last year's indoor meet by the small margin of one point, the deciding point being gained by our relay team. In the meet last spring the M. A. C. team again gave our team a severe test. In the last few years the teams from both colleges have been quite evenly matched.

On the following Wednesday, Washington's birthday, Clark will be our opponent. (Continued on Page 6, Col. 1)

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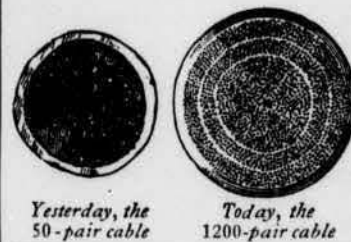
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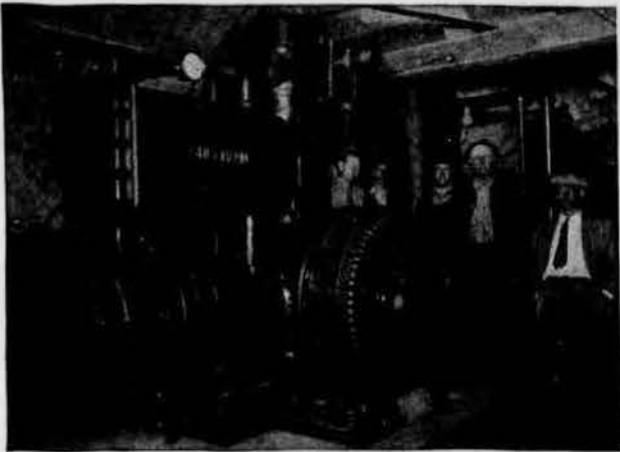


I. S. Newcomb

W. P. Lewis

J. L. Guidi

J. H. Minnick



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Diplomatic Diction in Berlin



HOTEL ADLON, BERLIN, GERMANY

Two German diplomats, who had been at the University of Bonn together, met in the foyer of the Hotel Adlon after a separation of some years. One of them had been at a South American capital, one in the Orient.

Eagerly they discussed old times and common memories, and they were still talking excitedly as they started toward the Otis Elevator. When they reached the door, they paused, each wishing to give the other precedence.

"But you must go first, my good friend," one of them was heard to remark. "I'm sure the ride will be a novelty to you after so many years in the East, and I would not think of preceding you."

"On the contrary," answered the other, "I am insisting that you enter first. We lacked some things in the Orient, but the Otis, there as here, is in all the big shops and hotels." "We'd better squeeze in together, then, because South America, too, is well equipped! But wait a moment! You must go first, for I used the Otis on board the steamer every day!" "I, too! I will not be outdone!"

Starting forward together, they collided at the door.

One would have to travel farther than civilization, East or West, to find any novelty in that taken-for-granted convenience, the Otis Elevator.

OTIS ELEVATOR COMPANY

Offices in All Principal Cities of the World

SECONDS BEAT CLARK SCRUBS

(Cont. from Page 1, Col. 5)

when Kontio dropped in a nice one from the sidelines. Lundborg replaced Manty at guard. Neither team had an effective offense but they were both excellent in the defense department.

Berry replaced Whitaker at center. A wild pass at the Clark goal brought the ball into the hands of the Clark team and after a few fast maneuvers, Higgenbottom broke through the Tech defense to tie the score with a neat basket from under the hoop. The half ended three all.

The first score in the third period was chalked up when Downing broke out of a mass of players near the Clark goal with the ball and neatly dropped in a goal from a difficult position under the basket. After some flashy passing and a clever demonstration of acrobatic stunts, Whitman, fouled by Lundborg, registered a point for Clark on a free try.

The teams continued to fight hard in the closing period. After a fast pass Higgenbottom started down the court with a speedy dribble which ended in a clean two-point tally for the Main South team. This last score placed Clark in a one-point lead. As time shortened things looked as if the game would end that way, but a free try by Downing just before the gun went off tied up the game with a seven-to-seven score, and pushing the game into overtime periods.

Two five-minute overtime periods were necessary to settle the contest. In the first period, Lundborg sunk a neat long shot, but just as victory was almost assured for Tech, Crimmins looped the ball in from under the Tech hoop and tallied two points for Clark, knotting the score again, this time 9-9.

In the second overtime period, the Tech team easily showed itself to be holding out more strongly than their opponents under the fast pace set by both sides. Manty took the ball on a pass and succeeded in giving Tech a two-point lead with a beautiful basket that sealed up the game. Final score: Tech Seconds 11, Clark Seconds 9.

TECH SECONDS

	fg.	ft.	tp.
Downing, rf	1	0	2
Manty, lf	1	0	2
Kontio, rg	1	0	2
Whitaker, c	0	1	1
Lundborg, lf	1	0	2
Rice, rg	1	0	2
Totals	5	1	11

CLARK SECONDS

	fg.	ft.	tp.
Higgenbottom, rg	2	0	4
Kraemer, lg	0	1	1
Crimmins, rf	1	0	2
Whitman, c	0	1	1
O'Neil, lf	0	1	1
Farrell, lg	0	0	0
Totals	3	3	9

FULLER GIVES SCHOLARSHIP

(Cont. from Page 1, Col. 4)

cost of instruction of one student. It will be awarded on the basis of ingenuity exhibited by the boy in his elementary and preparatory schools. Details of the method to be followed in selecting the recipient have not been announced.

This gift is one of many given to the Institute by Mr. Fuller. He has made generous contributions to endowment and to campus improvements. Two years ago he and his partner, John E. Aldred, financed the construction of the Fuller swimming pool as a memorial to his father, the second president of the college.

TRACKSTERS TWICE IN BOSTON

(Continued from Page 4, Col. 2)

ponent in the second dual meet of the season. This will be followed on Saturday by a relay race with the M. A. C. quartet at the 104th Regiment Indoor Meet at Springfield.

TECH GLEE CLUB TO SING AT MECHANICS HALL



ALUMNI ELECT

(Cont. from Page 1, Col. 2)

tions were: George F. Booth, publisher of the Telegram-Gazette, who will succeed Alfred O. Weid of Boston; Ernest W. Marshall, '93, an attorney of New York City, who will succeed John W. Burke of the same city; and Charles F. Bailey, '88, engineering manager of the Newport News Dry Dock Corp., who succeeds himself as his five year term has not expired.

After a formal vote by the board at their meeting in June the men will assume their offices in July for a period of five years.

CLUBS GIVE CONCERTS

(Cont. from Page 1, Col. 2)

audience. Some are still wondering where the die disappeared to. The Mandolin Club then rendered two popular pieces, "A Night in June" and "Gorgeous." Frank Wiesman showed a fine command of technique and unusual versatility in a group of two piano solos. The audience was favored with "Lo, How a Rose e'er Blooming" and "Eight Bells" by the Glee Club, being led in these two numbers by Ralph Hodgkinson who has been appointed student leader of the Club. Uno Matson and Russell LeBosquet entertained

on the piano with a few duets. They received much applause and favored the audience with an encore. H. P. Shreeve appeared unexpectedly on the stage and produced from a seemingly empty tube a Worcester Tech banner which was held up in front of the Glee Club as they sang the Alma Mater. After the concert dancing was in order for an hour and a half. At a few minutes after twelve the students were in the bus and on their way home, arriving in Worcester about one-thirty.

The next trip comes this evening, when the clubs go to Winchendon. Dancing will follow the entertainment.

GLEE CLUB TO SING IN BOSTON CONTEST

Selection of Men to Begin Soon

Twelve or fifteen years ago the calibre of college glee club singing was very low. Gradually, however, due to the influence of such men as Dr. Archibald T. Davidson of Harvard University and Marshall Bartholomew of Yale University, the glee clubs have improved to such an extent that the winner of an intercollegiate "sing" must have nearly perfect enunciation, rich and full tones, and all those points of technique for excellent music.

Into such a contest the Worcester Tech Glee Club has been entered. Mr. Hanscomb, the director, has, after careful consideration, appointed R. Hodgkinson, '31, to lead the Club down at Boston. Quartet trials will be held tomorrow afternoon for the purpose of selecting thirty out of the sixty odd men to represent the college. As soon as these men have been picked, they will rehearse nearly every day until February twenty-fourth, the day of the contest. The prize song which all the glee clubs must sing is "The Broken Melody" by Sibelius.

Inasmuch as some of the alumni have come forward with a substantial sum for expenses, it is probable that a large portion of the student body will be enabled to go down to Boston.

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BYRD ADDRESSES STUDENT BODY

(Cont. from Page 1, Col. 1)

called on President Earle to introduce the speaker. President Earle paid the young commander a fine tribute as he told of their early friendship as shipmates on the "Dolphin," of which the president was formerly captain. He also praised the famous naval officer very highly for the prominent part the latter has taken in making long distance, non-stop flights practical and safe. President Earle concluded his brief but excellent introduction with the following: "I am more than honored to be able to introduce as a friend and an excellent, efficient shipmate, Commander Richard E. Byrd U. S. N., one of the greatest men of our age."

The audience applauded heartily as Comdr. Byrd rose and ascended the low platform. He calmly adjusted the microphone on the desk before him and began by gratefully acknowledging his indebtedness to Floyd Bennett, his partner and co-pilot, for much of his success in the North Polar flight and the trans-Atlantic flight. He proceeded, along a somewhat technical line, to tell of and describe some of the special instruments and devices that had to be perpetrated in order to successfully encounter the unique and severe conditions of the Polar flight.

At this point, Comdr. Byrd paid grateful tribute to Mr. A. N. Bumsted of Washington, D. C., a graduate of Tech in the class of 1898.

"If it had not been for the sun compass invented by Mr. Bumsted while Floyd Bennett and I were making preparations for flying over the North Pole," continued the Commander, "we would have had a great deal more difficulty than we did. A magnetic compass is of no avail when the North Pole is being approached, for the magnetic pole is some 1,200 miles away from the North Pole, somewhere over Canada, and we would be flying south according to the magnetic compass, while we were still headed north for the Pole."

He told of how the sun never sets at the pole, but that it travels (that is it seems to travel) continually in a circle. He also explained the use and operation of several other very useful and interesting devices which did a great deal to make the flying reliable and less hazardous.

One of these instruments, which the commander himself invented and which he calls the drift indicator, was used in the successful Navy trans-Atlantic flights in 1919.

"This instrument," said Comdr. Byrd, "is worked through a trap door in the bottom of the plane. I will never forget how I felt when we flew over Nova Scotia to try out the new instruments. We were flying over a 100-mile stretch of water, which would give us perfect conditions for testing the indicator. I was the first one to drop the indicator out and was thoroughly disappointed when it showed that we were drifting at an angle of 30 degrees, for I did not believe it possible to run against such adverse winds. However, you may imagine my reactions when I learned that the experimenter in the other plane found the same conditions when he tried out his instrument. That was proof that the instrument was successful."

When Comdr. Byrd finished telling of his North Pole expedition, he spoke of the trip he expects to make next fall to explore and investigate the South Polar region. On this trip, the aviator-explorer is planning to take along with him about 100 dogs, six Eskimoes, two planes and eight scientists. The reason for taking the dogs is that much more complete and accurate data can be obtained with them than by plane alone. The scientists are to study the geological and glacial

conditions of the frozen region at the South Pole.

The main base is to be established on a large sheet of ice which has an area of about 400 square miles and a depth or thickness of from ten to three hundred feet. The very adverse atmospheric conditions at the South Pole will make it impossible to use the planes consistently, for the winds there often attain a speed of up to 120 miles per hour.

Comdr. Byrd then concluded his address by mentioning that the purpose of these exploration trips was primarily for the collection of scientific data. "Science," declared the commander,

is in my opinion a homogeneous mass of details, and I believe that we can aid the development of science by bringing some of these details from the Antarctic regions."

Following the lecture, the Glee Club manifested its merits in very creditable singing of "Alma Mater" under the direction of Dean Hanscomb.

The exercises were then fittingly brought to a close by playing the "Star Spangled Banner" over the new amplifying system which was installed in the gymnasium by Prof. C. D. Knight and Mr. H. H. Newell, both of the E. E. department.

ORCHESTRA SUGGESTIONS INVITED BY COMMITTEE

Site of Prom Is Questionable

The Junior Prom committee, A. W. Knight, chairman, is at work on arrangements. Suggestions from the student body for orchestras will be appreciated. The prom may be held in the ballroom of the Bancroft Hotel, although the dormitory has been suggested as a site for the affair. The committee: A. W. Knight, chairman; A. C. Holt, D. R. Leamy, A. R. Cushman, J. K. Fullerton, F. J. McGowan, H. L. Horton, M. Labonte, A. S. Marshall.

PEDDLER CONTRACT HAS BEEN AWARDED

The contract for the printing of the "Peddler" has been let to the Heffernan Press of Spencer, Mass., printers of the TECH NEWS and last year's "Aftermath." The book will go to press on March 1st, in order that it may be ready for distribution by May 15th. All copy, consisting of write-ups of professors, students and special articles, must be in by February 21st.

A few more "Peddlers" will be available than was at first expected. These may be secured from Business Manager Marino.



C. W. HEPPENSTALL, JR.
Contract Administrator
Penn State '22



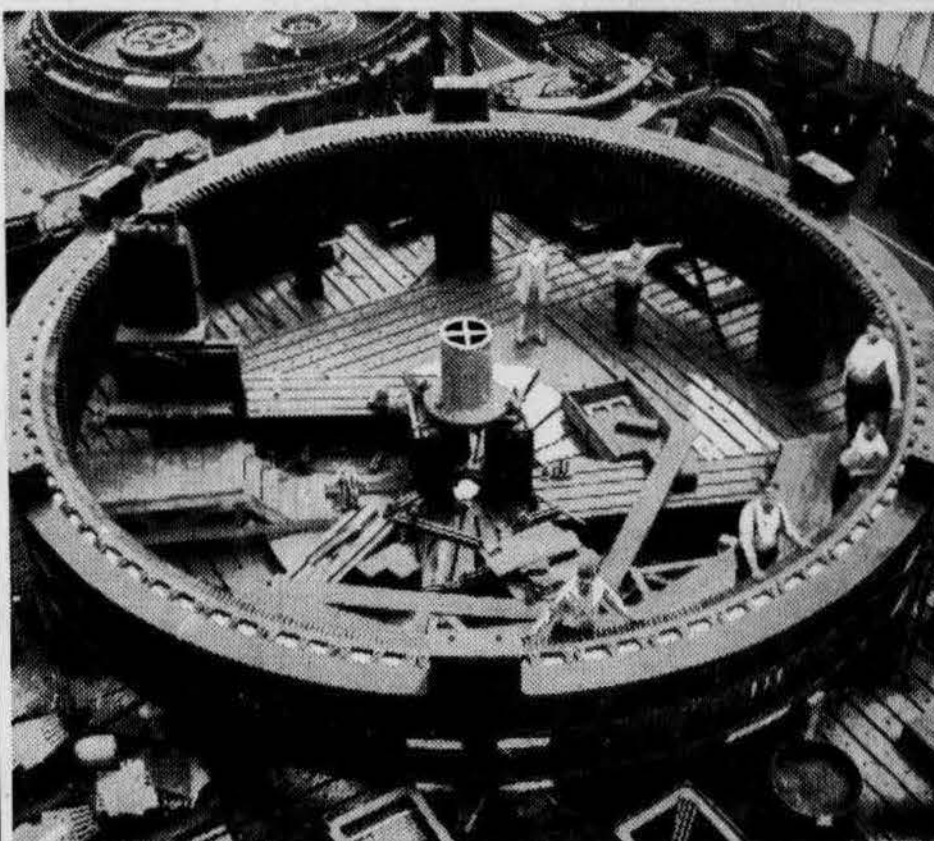
M. V. MAXWELL
Design Engineer
U. of Missouri '23



R. R. SHEELY
Design Engineer
Ohio State '22



R. S. MATHENS
Design Engineer
Carnegie Tech '23



The picture above shows workmen assembling one of the huge Conowingo stators in the Westinghouse Works at East Pittsburgh. The men in the picture will give an idea of the tremendous size of these generators.



RÉNE BAUDRY
Drafting Engineer
École Nationale
d'Arts et Métiers
d'Aix-en-Provence '19



J. H. ASHBAUGH
Design Engineer
Illino '18



S. B. GRISCORN
Transmission Engineer
Cornell '22



R. C. BERGVALL
Central Station Engineer
U. of Michigan '21

YOUNGER COLLEGE MEN ON RECENT WESTINGHOUSE JOBS

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and power house. This hydro-electric development, one of the largest in the world, has an initial capacity of 281,000 kv-a. in seven units and an ultimate capacity of 440,000 kv-a. The generators, due to their very low operating speed of 81.8 r.p.m., are much larger physically than anything yet built, each machine being approximately 37 feet in diameter

and weighing over one million pounds.

Only an organization of the size and resources of Westinghouse can undertake the building of such a large machine. Westinghouse offers great attractions to young men of enterprise and genius because it daily provides facilities and opportunities which smaller companies cannot offer.

Westinghouse



TECH DEFEATS CLARK

(Cont. from Page 1, Col. 5)

good start, scoring within ten seconds of the opening whistle. Wilkinson added another point from the free try line, closely followed by a basket by Holmes. Wilkinson sank a double-header, after a long dribble. At this stage of the game Clark was evidently bewildered, the Engineers leading, 7-0. The effects of close guarding were very marked.

Ciano put his team in the scoring column when he countered a free try and returned soon after to score a hair-raiser for two more points. The playing was getting rough because of close guarding. Holmes received a pass under the basket and sank the leather, to give his mates a 9-3 lead.

Alderman, Clark sharpshooter, sank his first basket. Ciano followed with three points from the free try line. Alderman scored again. Clark led at this stage, for the first and last time during the entire game, 10-9. Graham added two more points to the Engineer's total, on free tries. Ciano tied the score with his fifth free try of the evening. Smith missed fire, and Graham retrieving the ball, pushed it through the hoop. The half ended with Tech leading, 13-11.

Graham opened the second half with a long shot from the side of the court, after a pass by Wilkinson. With the game well under way, Amsden sank a counter for Clark, after rescuing the ball from a scrimmage underneath the basket. Holmes added another basket to his total, on a pass from Graham. Wilkinson tallied on a set shot from the middle of the floor. Graham sank another counter as Shanahan frantically strove for possession of the ball.

Holmes collected two more points, giving his mates a ten point lead. Shanahan countered from the floor with his first and last basket of the game. Nicol and Shanahan added three more points to the Cherry and White score, on free tries. Holmes sank a free try. Wilkinson and Cotton were replaced by Topelian and Dennison. Mattson slipped one in for Clark as the game ended.

WORCESTER TECH—26

	fg	ft	tp
Smith, lf	0	0	0
Holmes, rf	5	1	11
Graham, c	4	2	10
Cotton, lb	0	0	0
Dennison, lb	0	0	0



Freddy Holmes came into his own Saturday night when he walked away with scoring honors for the evening. He showed himself wide awake in the scrimmages under the Clark basket, turning in counters while the Cherry and White guards were looking for the ball.

The fact that the Clark forwards scored but three baskets between them shows the manner in which Bob Cotton and Wilkinson smothered the shots of Alderman and Shanahan.

The playing throughout last Satur-

Wilkinson, rb	2	1	5
Topelian, rb	0	0	0
	11	4	26
CLARK—20			
	fg	ft	tp
Amsden, rb	1	0	2
Mattson, lb	1	0	2
Nicol, lb	0	1	1
Ciano, c	1	5	7
Alderman, rf	2	0	4
Shanahan, lf	1	2	4
	6	8	20

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CHARLES B. MUZZY, '28, Representative

day's game was extremely rugged and at times approached the work usually seen on the gridiron. This was due in part to the persistent check that the Tech backs maintained throughout the game on all shots in their territory.

It was early evident that without Shanahan the Clark team would have no offense, for that diminutive player started four out of every five of his team's plays.

Parker Smith played his usual snappy style and showed a fast floor game, feeding his cohorts with the oval at every hand.

It was quite singular to see Graham take the tap from his taller adversary Ciano and then tally a basket after a short pass from Parker Smith before the Clark team realized the game was under way.

Pete Bigler had a chance to see his reserves in action when Topelian and Dennison replaced Wilkinson and Cotton in the back court.

**BROWN DEFEATS
TECH NATATORS**

Tawter and Larson Obtain Only Firsts for Tech

At Providence on Friday, January 27, the mermen representing Brown University were the Tech swimming team's first conquerors by the score of 43-19. This score however fails to tell one how close the meet really was. It was quite apparent that the strangeness and the narrow width of the pool prevented W. P. I.'s swimmers from demonstrating their true abilities.

"Joe" Tawter and Carl Larson were the only two Tech mermen to gain a first place. Holcombe and Rogers were also the only Tech men to win a second place. Merchant, Litchfield, and Arnold starred for the Brown group.

This Saturday the swimming team will meet the Boston University team at 3:00 p. m. in the Aldred-Fuller pool. Recently Williams easily downed the B. U. team.

50-yard dash—Won by Litchfield, B; second, Holcombe, W; third, Barrows, B. Time, 25 1-5 seconds.

440-yard dash—Won by Henry, B; second, Lamden, B; third, Hollick, W. Time, 5 minutes, 58 2-5 seconds.

Dives—Won by Tawter, W; second, Sullivan B; third, Sodano, W.

100-yard dash—Won by Arnold, B; second, Rogers, W; third, Goff, B. Time, 59 seconds.

150-yard back stroke—Won by Merchant, B; second, Sittler, B; third, Palm, W. Time, 1 minute, 58 3-5 seconds.

200-yard breast stroke—Won by Larson, W; second, Borden, B; third, Aldrich, B. Time, 2 minutes, 49 seconds.

200-yard relay—Won by Brown (Goff, Arnold, Barrows, Litchfield); second, Tech (Holcombe, Curtis, Perry, Rogers). Time, 1 minute, 42 2-5 seconds.

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